

REQUEST FOR ACCESS TO AN ABANDONED APPLICATION UNDER 37 CFR 1.14

Bring completed form to:
File Information Unit
Crystal Plaza Three, Room 1001
2021 South Clark Place
Arlington, VA
Telephone: (703) 308-2788

In re Application of

Application Number

08-332046

Filed

11-1-94

Paper No.

11 S 2

I hereby request access under 37 CFR 1.14(a)(1)(iv) to the application file record of the above-identified ABANDONED application, which is (identified in, or to which a benefit is claimed, in the following document (as shown in the attachment):

United States Patent Application Publication No. _____, page, _____ line _____

United States Patent Number 6248516, column _____, line, _____ of

WIPO Pub. No. _____, page _____, line _____

Related Information about Access to Pending Applications (37 CFR 1.14):

Direct access to pending applications is not available to the public but copies may be available and may be purchased from the Office of Public Records upon payment of the appropriate fee (37 CFR 1.19(e)), as follows:

For published applications that are still pending, a member of the public may obtain a copy of:

the file contents;

the pending application as originally filed; or

any document in the file of the pending application.

For unpublished applications that are still pending:

(1) If the benefit of the pending application is claimed under 35 U.S.C. 119(e), 120, 121, or 365 in another application that has: (a) issued as a U.S. patent, or (b) published as a statutory invention registration, a U.S. patent application publication, or an international patent application publication in accordance with PCT Article 21(2), a member of the public may obtain a copy of:

the file contents;

the pending application as originally filed; or

any document in the file of the pending application.

(2) If the application is incorporated by reference or otherwise identified in another application, a statutory invention registration, a U.S. patent application publication, or an international patent application publication in accordance with PCT Article 21(2), a member of the public may obtain a copy of:

the pending application as originally filed.

2002 8 24

OPEN

Diedre Baggett

Signature

2-28-06

Date

Diedre Baggett

Typed or printed name

FOR PTO USE ONLY

Approved by:

(initials)

Unit:

Registration Number, if applicable

703-486-1150

Telephone Number



US006248516B1

(12) **United States Patent**
Winter et al.

(10) Patent No.: **US 6,248,516 B1**
(45) Date of Patent: **Jun. 19, 2001**

(54) **SINGLE DOMAIN LIGANDS, RECEPTORS
COMPRISING SAID LIGANDS METHODS
FOR THEIR PRODUCTION, AND USE OF
SAID LIGANDS AND RECEPTORS**

4,965,188 10/1990 Mullis et al. .
4,978,743 12/1990 Selbeck et al. .
4,983,728 1/1991 Herzog et al. .
5,023,171 6/1991 Ho et al. .

(75) Inventors: **Gregory Paul Winter; Elizabeth Sally
Ward, both of Cambridge; Detlef
Güssow, Abington, all of (GB)**

(List continued on next page.)

(73) Assignee: **Medical Research Council, London
(GB)**

FOREIGN PATENT DOCUMENTS

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

2016841 11/1990 (CA).
2019323 12/1990 (CA).
0 120 694 10/1984 (EP).
0 125 023 11/1984 (EP).
0 171 496 2/1986 (EP).
0 173 494 3/1986 (EP).
0 194 276 B1 9/1986 (EP).
0 200 362 12/1986 (EP).
0 201 184 B1 12/1986 (EP).
0 239 400 9/1987 (EP).
0 368 684 5/1990 (EP).
2 137 631 10/1984 (GB).
61-104788 5/1986 (JP).
63-152984 6/1988 (JP).
WO 86/01533 3/1986 (WO).
WO 87/02671 * 5/1987 (WO).
WO-A
88/01649 3/1988 (WO).
WO 88/0663 9/1988 (WO).
WO 88/06630 9/1988 (WO).
WO 88/09344 12/1988 (WO).
WO 89/00999 2/1989 (WO).
WO 90/14424 11/1990 (WO).
WO 90/14430 11/1990 (WO).
WO 90/14443 11/1990 (WO).
WO-A
97/08320 3/1997 (WO).
97/08320 3/1997 (WO).

Related U.S. Application Data

(62) Division of application No. 08/332,046, filed on Nov. 1,
1994, which is a continuation of application No. 07/796,805,
filed on Nov. 25, 1991, which is a division of application No.
07/580,374, filed on Sep. 11, 1990, now abandoned.

OTHER PUBLICATIONS

(30) Foreign Application Priority Data

Nov. 11, 1988 (GB) 8826444
Mar. 16, 1989 (GB) 8906034
Apr. 22, 1989 (GB) 8909217
May 15, 1989 (GB) 8911047
Jun. 2, 1989 (GB) 8912652
Jun. 16, 1989 (GB) 8913900
Aug. 15, 1989 (GB) 8918543
Nov. 13, 1989 (WO) PCT/GB89/01344

Kokubu, F., et al, *The EMBO Journal*, vol. 7, No. 7, pp. 1979-1988, 1988 "Complete structure and organization of immunoglobulin heavy chain constant region genes in a phylogenetically primitive vertebrate".
Schwager, J., et al, *Proc. Natl. Acad. Sci. USA*, vol. 85, pp. 2245-2249, Apr. 1988 Immunology "Amino acid sequence of heavy chain from *Xenopus laevis* IgM deduced from cDNA sequence: Implications for evolution of immunoglobulin domains".
Roth, M.E., et al, *Science*, vol. 241, pp. 1354-1358, Sep. 9, 1988 "Selection of Variable-Joining Region Combinations in the α Chain of the T Cell Receptor".

(51) Int. Cl. ⁷ C12Q 1/68
(52) U.S. Cl. 435/6; 435/69.6; 435/252.33;
435/441; 435/446
(58) Field of Search 435/240.2, 252.3,
435/252.33, 6, 69.6, 441, 446; 536/23.7,
23.4, 23.5, 23.6

(List continued on next page.)

(56) References Cited

Primary Examiner—James Ketter
(74) Attorney, Agent, or Firm—Nixon & Vanderhye PC

(57) ABSTRACT

The present invention relates to single domain ligands derived from molecules in the immunoglobulin (Ig) superfamily, receptors comprising at least one such ligand, methods for cloning, amplifying and expressing DNA sequences encoding such ligands, preferably using the polymerase chain reaction, methods for the use of said DNA sequences in the production of Ig-type molecules and said ligands or receptors, and the use of said ligands or receptors in therapy, diagnosis and catalysis.

U.S. PATENT DOCUMENTS

4,356,270 10/1982 Itakura .
4,642,334 2/1987 Moore et al. .
4,656,134 4/1987 Ringold .
4,683,195 7/1987 Mullis et al. .
4,683,202 7/1987 Mullis .
4,704,692 11/1987 Ladner .
4,711,845 12/1987 Gelfand et al. .
4,714,681 12/1987 Reading .
4,800,159 1/1989 Mullis et al. .
4,806,471 2/1989 Molin et al. .
4,816,397 3/1989 Boss et al. .
4,889,818 12/1989 Gelfand et al. .
4,937,193 6/1990 Hinchliffe et al. .
4,946,786 8/1990 Tabor et al. .
4,959,317 9/1990 Sauer .